



UNITED STATES PATENT AND TRADEMARK OFFICE

INTER STATES DEPARTMENT OF COMMERCE D STATES DAY AND TRANSMIRE OFFICE OF PATENTS AND TRADEMARKS Westington, D.C. 20231

NOTICE OF ALLOWANCE AND FEE(S) DUE

022844

7590

07/26/2002

FORD GLOBAL TECHNOLOGIES, INC SUITE 600 - PARKLANE TOWERS EAST ONE PARKLANE BLVD. DEARBORN, MI 48126

RECEIVED

AUG - 9 2002

EXAMINER

CORRIGAN, JAIME W

ART UNIT

CLASS-SUBCLASS

3748

123-090110

TECHNOLOGY CENTER R3700

DATE MAILED: 07/26/2002

				CONFIRMATION NO.
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	
09/682 959	11/02/2001	· Diana D. Brehob	201-0876 AJL	3898

TITLE OF INVENTION: METHOD TO CONTROL ELECTROMECHANICAL VALVES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE '	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	· NO	\$1280	\$300	\$1580	10/28/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT, SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

Match and Return

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fec(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

OK to Enter

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

dicated unless corrected below or directed otherwise in Block I, by (a) special unless corrected below or directed otherwise in Block I, by (a) special unless corrected below or directed otherwise in Block I, by (a) special unless that the property of the property of the Block I, by (a) special unless that the property of the Block I, by (a) special unless that the Block II,				Note: A certificate Fee(s) Transmitt accompanying pa formal drawing, a (I hereby certify t United States Post causelone addrawa	es; and/or (b) indicating a sep- c of mailing can only be used for al. This certificate cannot pers. Each additional paper, a sust have its own certificate of moderatificate of Mailing or Transhat this Fee(s) Transmittal is al Service with sufficient posts d to the Box Issue Fee address USPTO, on the date indicated by	or domestic mailings of the be used for any other such as an assignment or nailing or transmission. smission being deposited with the ge for first class mail in an above, or being faciantile
						(Signature)
					•	(Date)
			· ·			
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVENT	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/682,959	11/02/2001		Diana D. Brehob		201-0876 AJL	3898
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLI	CATION FEE	TOTAL FEE(S) DUE	DATE DUE 10/28/2002
nonprovisional	NO	\$1280		\$300	\$1580	10/28/2002
EXAMI	NER	ART UNIT	CLASS-SUBCL	ZZA		
CORRIGAN,		3748	123-09011	0		
1, Change of corresponder CFR 1.363). Q Change of correspond Address form PTO/SB/1 Q "Fee Address" indicate PTO/SB/47; Rev 03-02 Number is required.	f Correspondence	the names of up or agents OR, single firm (ha attorney or age registered pater	on the patent from p to 3 registered pr alternatively, (2) t ving as a membe ent) and the name t attorneys or agen se will be printed.	stent stiorneys he name of a r a registered s of up to 2		
	to the USPIO or is being	elow, no assignee data w submitted under separate	ill appear on the percent control of the percent completion of the percent completion of the percent control of th	estant Inclusion of	assignee data is only appropria OT a substitute for filing an assi OUNTRY)	the when an assignment has gnment.
Please check the appropriation. A. The following fee(s) are		4b. Pa	yment of Fee(s):		acrporation or other private	group entity 🔾 government
☐ Issue Fee				t of the fee(s) is end		
			 Payment by credit card. Form PTO-2038 is attached. The Commissioner is hereby authorized by charge the required fec(s), or credit any overpayment, to 			credit any overnavment, to
☐ Advance Order - # of 0	Copies	- Depos	it Account Number	1	(enclose an extra copy of this	form).
Commissioner for Patents i	s requested to apply the Is	sue Fee and Publication F	ee (if any) or to re	e-apply any previou	asly paid issue fee to the applica	ation identified above.
(Authorized Signature)		(Date)				

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

micrest as snown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)



United States Patent and Trademark Office

United States Department of Connector United States Patent and Tredemark Office Address: COMMISSIONER OF PATENTS AND TRADEMARK Weblington, D.C. 2021

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/682,959	11/02/2001 Diana D. Brehob		201-0876 AJL	3898	
•	AP 04 0000		EXAMIN	EXAMINER	
022844	7590 07/26/2002	NG.	CORRIGAN, JAIME W		
FORD GLOBAL TECHNOLOGIES, INC SUITE 600 - PARKLANE TOWERS EAST					
		21	ART UNIT	PAPER NUMBER	
ONE PARKLANE BLVD. DEARBORN, MI 48126			3748		
			DATE MAILED: 07/26/2002		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMERCERER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/682,959	11/02/2001	Diana D. Brehob	201-0876 AJL	3898
	022844	7590 07/26/2002	· · · · · · · · · · · · · · · · · · ·	• EXAMIN	ER
FORD GLOBAL TECHNOLOGIES, INC			, INC	CORRIGAN, JAIME W	
	SUITE 600 - PARKLA	ARKLANE TOWERS E NE BLVD	AST	ART UNIT	PAPER NUMBER
	DEARBORN, N	AI 48126		3748	
	UNITED STAT	ES	D.17	TE MAIN ED. 0306000	

Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Que," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))—\$655.00 By other than a small entity—\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))-\$235.00 By other than a small entity-\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00 By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Page 4 of 4

10

	Application No.	Applicant(s)			
	09/682,959	BREHOB ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Jaime W Corrigan	3748			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
2. The allowed claim(s) is/are 1-32. 3. The drawings filed on are accepted by the Examine 4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).	The allowed claim(s) is/are 1-32. The drawings filed on are accepted by the Examiner. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the				
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). (a) The translation of the foreign language provisional application has been received. 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE					
7. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which gives reas	itted. Note the attached EX	AMINER'S AMENDMENT or I			
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.					
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)					
1 □ Notice of References Cited (PTO-892) 3 ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 □ Information Disclosure Statements (PTO-1449), Paper No 7 □ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4⊠ Interview 6⊠ Examin	of Informal Patent Application (W Summary (PTO-413), Paper er's Amendment/Comment er's Statement of Reasons for	No. <u>5</u> .		
		<u> </u>			

Application/Control Number: 09/682,959

Art Unit: 3748

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Diana Brehob on 7-23-02.

The application has been amended as follows:

In claim 1, page 11, line 4, "open" has been replaced by --close--.

Conclusion

Any inquiry concerning this communication from the examiner should be directed to Examiner Jaime Corrigan whose telephone number is (703) 308-2639. The examiner can normally be reached on Monday - Friday from 8:30 a.m. – 6:00 p.m. 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (703) 308-2623. The fax number for this group is (703) 308-7763.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

Application/Control Number: 09/682,959

Art Unit: 3748

Page 3

JC

July 25, 2002

Jaime Corrigan

Patent Examiner

Art Unit 3748

THOMAS DENION
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700

Form PTO 948 (Rev. 03/01) U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office Application N

Application No. 09 682999

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date)	the reasons indicated below. The Examiner will require ing must be sumitted according to the instructions on the back of this notice.
1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink. Color. Color drawings are not acceptable until petition is granted. Fig(s) Pencil and non black ink not permitted. Fig(s) Photographs may not be mounted. 37 CFR 1.84(c) Poor quality (half-lone). Fig(s) TYPE OF PAPER. 37 CFR 1.84(e) Paper not flexible, strong, white, and durable. Fig(s) Erasures, alterations, overwritings, interlineations, folds, copy machine marks not acceptable (too thin). Fig(s) Mylar, velu: paper is not acceptable (too thin). Fig(s) 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 27.9 cm (DIN size A4) 21.6 cm by 27.9 cm (B 1/2 x 11 inches) All drawing sheets not the same size. Sheet(s) Drawlags sheets not an acceptable size. Fig(s) 5. MARGINS. 37 CFR 1.84(g): Acceptable margins: Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 8 1/2 x 11 Margins and acceptable. Fig(s) Top (T) Right (R) Bottom (B) Views. 37 CFR 1.84(h) REMINDER: Specification may require revision to correspond to drawing changes. Partial views. 37 CFR 1.84(h)(2) Brackets needed to show figure as one entity. Fig(s) Views not labeled separately or properly. Fig(s) Enlarged view not labeled separetely or properly. Fig(s) Enlarged view not labeled separetely or properly. Fig(s) Sectional designation should be noted with Arabic or Roman numbers. Fig(s)	8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i) Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) 9. SCALE 37 CFR 1.84(k) Scale and large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) 10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(i) Lians, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) 11. SHADING. 37 CFR 1.84(m) Solid black shading not permitted. Fig(s) Shade fines, pide, rough and blurred. Fig(s) Shade fines, pide, rough and blurred. Fig(s) Numbers, letters, & REFERENCE CHARACTERS. 137 CFR 1.84(p) Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) English alphabet not used. 37 CFR 1.84(p)(2) Figs Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in beight. 37 CFR 1.84(p)(3) Fig(s) Lead lines cross each other. Fig(s) Lead lines cross each other. Fig(s) Lead lines missing. Fig(s) 13. LEAD LINES. 37 CFR 1.84(q) Lead lines missing. Fig(s) Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) 15. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t) Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Fig(s) Loudening with number 1. Fig(s) CORRECTIONS. 37 CFR 1.84(w) Corrections not made from prior PTO-948 dated 17. DESIGN DRAWINGS. 37 CFR 1.54(w) Corrections not made from prior PTO-948 dated 18. Surface shading shown not appropriate. Fig(s) Solid black shading not used for color contrast.
COMMENTS - FO. 2 and Fg. 3 Reference Number	are connected by
REVIEWER DATE ATTACHMENT TO PAPER NO	125 (Q TELEPHONE NO

•	Application No.	Applicant(s)		
Indonesia de Commando	09/682,959	BREHOB ET AL.		
Interview Summary	Examiner	Art Unit		
	Jaime W Corrigan	3748		
All participants (applicant, applicant's representative, PTO	:			
(1) Jaime W Corrigan.	(3)			
(2) <u>Diana Brehob</u> .	(4)			
Date of Interview: 23 July 2002.				
Type: a)⊠ Telephonic b)☐ Video Conference c)☐ Personal [copy given to: 1)☐ applicant	2) applicant's representativ	e]		
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e)⊠ No.	-		
Claim(s) discussed: 1.	•			
Identification of prior art discussed:				
Agreement with respect to the claims f)⊠ was reached.	g) was not reached. h)] N/A.		
Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: <u>Applicant's Attorney agreed to amend claim 1 as set forth in the Examiner's Amendment attached hereto</u>				
(A fuller description, if necessary, and a copy of the amend allowable, if available, must be attached. Also, where no allowable is available, a summary thereof must be attached	copy of the amendments that v	reed would render the claims would render the claims		
i) It is not necessary for applicant to provide a schecked).	eparate record of the substance	e of the interview(if box is		
Unless the paragraph above has been checked, THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.				
	. •			
		·		
		1		
Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.	Examiner's sign	nature, if required		